

**RETROFITTING WHEELCHAIR RAMPS WITH DETECTABLE
WARNINGS (RAISED TRUNCATED DOMES)**

10-21-03

DESCRIPTION

This work shall consist of retrofitting existing concrete wheelchair ramps with detectable warnings in accordance with the details, Standard Specifications and these provisions.

MATERIALS

Detectable warnings may be either truncated dome concrete paving blocks or stamped concrete. Use Class B concrete in accordance with the Standard Specifications.

Truncated Domes shall have a base diameter of no less than 0.9 inches (23 mm) to no more than 1.4 inches (36 mm), a top diameter of no less than 50 % to no more than 65% of the base diameter, and a height of 0.2 inches (5 mm). Truncated domes shall have center-to-center spacing of no less than 1.6 inches (41 mm) to no more than 2.4 inches (61 mm), and a base to base spacing of 0.65 inches (16 mm) minimum, measured between the most adjacent domes on square grid.

CONSTRUCTION METHODS

Place detectable warnings in accordance with Section 825-4 of the Standard Specifications. Sawcut to the full depth of the concrete and adjust the existing subgrade to the proper grade prior to placing concrete to be stamped or installing paving blocks. Truncated domes shall be installed 24 inches (600 mm) in length of along the bottom of the curb ramps in accordance with the details and plans.

Obtain 70 percent contrast visibility with adjoining surfaces, either light-on-dark, or dark-on-light sequence covering the entire ramp. The detectable warnings shall have the same or nearly the same contrast as the existing ramp.

METHOD OF MEASUREMENT

The quantity of detectable warning domes to be paid for will be the actual number of retrofitted wheelchair ramps, which have been completed and accepted.

BASIS OF PAYMENT

When detectable warning domes are installed on existing concrete wheelchair ramps, they will be paid for at the contract unit price per each for "Retrofit existing wheelchair ramps". Such price and payment will be full compensation for excavation and backfilling; sawing, repairing and/or replacing the existing sidewalk or curbs within the pay limits for retrofit shown on the detail; pavement repairs; furnishing and placing detectable warnings, construction joints and

removal and disposal of existing sidewalk and curb and gutter when required and for all materials labor, equipment, tools and incidentals necessary to complete the work.
Payment will be made under:

Pay item	Pay Unit	
Retrofit Existing Wheelchair Ramps	Each	RR105